

4.3/4.4
202

HW

p195 9-14

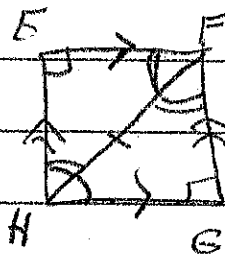
9.

$$\triangle CFH \cong \triangle JKL$$

$$10. \triangle RSV \cong \triangle TSV$$

$$11. \triangle WYZ \cong \triangle QVS$$

$$12. \triangle EFH \cong \triangle GHF$$



$$13. \triangle TUV \cong \triangle XYZ$$

$$14. \triangle CDB \cong \triangle RSW$$

$$\angle T \cong \angle X \quad \overline{TU} \cong \overline{XY}$$

$$\angle C \cong \angle R \quad \overline{CD} \cong \overline{RS}$$

$$\angle U \cong \angle Y \quad \overline{UV} \cong \overline{YZ}$$

$$\angle D \cong \angle S \quad \overline{DG} \cong \overline{SW}$$

$$\angle V \cong \angle Z \quad \overline{TV} \cong \overline{XZ}$$

$$\angle G \cong \angle W \quad \overline{CG} \cong \overline{RW}$$

p 203 5-8, 10, 16, 22-25

5.

① $\overline{DE} \perp \overline{BC}$ bis. each other

① Given

$$\textcircled{2} \overline{BG} \cong \overline{CG}$$

② def of bis

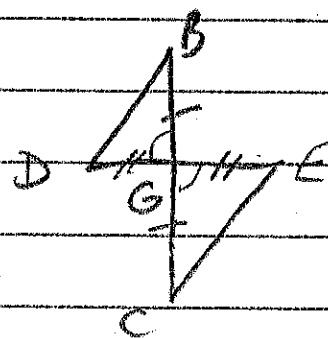
$$\overline{DG} \cong \overline{EG}$$

$$\textcircled{3} \angle DGB \cong \angle CGE$$

③ Vert \angle s \cong

$$\textcircled{4} \triangle DGB \cong \triangle EGC$$

④ SAS



$$6. \textcircled{1} \overline{KM} \parallel \overline{JL} \quad \overline{KM} \cong \overline{JL}$$

① Given

$$\textcircled{2} \overline{JM} \cong \overline{JM}$$

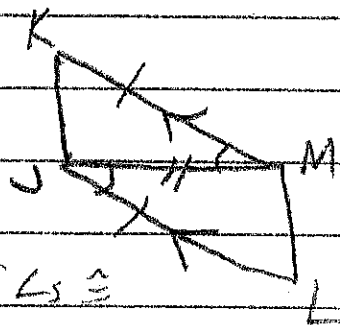
② Refl.

$$\textcircled{3} \angle KJM \cong \angle LJM$$

③ If \parallel , alt. int \angle s \cong

$$\textcircled{4} \triangle JKM \cong \triangle JLM$$

④ SAS



$$10. J(-3, 2) K(-7, 4) L(-1, 9) \quad F(2, 3) G(4, 7) H(9, 1)$$

$$JK = \sqrt{(-7-(-3))^2 + (4-2)^2} = \sqrt{16+4} = \sqrt{20}$$

$$FG = \sqrt{(4-2)^2 + (7-3)^2} = \sqrt{4+16} = \sqrt{20}$$

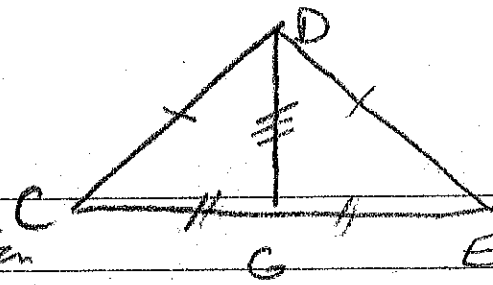
$$KL = \sqrt{(-1-(-7))^2 + (9-4)^2} = \sqrt{36+25} = \sqrt{61}$$

$$GH = \sqrt{(9-4)^2 + (1-7)^2} = \sqrt{25+36} = \sqrt{61}$$

$$JL = \sqrt{(-1-(-3))^2 + (9-2)^2} = \sqrt{4+49} = \sqrt{53}$$

$$FH = \sqrt{(9-2)^2 + (1-3)^2} = \sqrt{49+4} = \sqrt{53}$$

$\triangle JKL \cong \triangle FGH$
by SSS



16. ① $\triangle CDE$ is isos ✓
 G is midpt of \overline{CE}

① Given

② $\overline{CD} \cong \overline{ED}$

② def of isos

③ $\overline{CG} \cong \overline{GE}$

③ def of midpt

④ $\overline{DG} \cong \overline{DG}$

④ Refl.

⑤ $\triangle CDG \cong \triangle EDG$

⑤ SSS

22. SSS

23. not poss

24. not poss

25. SAS or SSS